

good reproducibility. Also provided is an immunoassay of medullasin, wherein when measuring the medullasin in blood using an anti-human medullasin antibody, the determination of the amount of human medullasin in a blood sample using said anti-human medullasin antibody is carried out after treating the blood sample with an aqueous liquid having a specific osmotic pressure different to the osmotic pressure of blood to completely break up the leukocytes. Also provided is a method of diagnosing multiple sclerosis characterized in that the human medullasin content of a blood sample is measured using an immunoassay, and the onset of multiple sclerosis and the extent of the disease is diagnosed according to the size of, or changes in, this measured value.

**IN THE CLAIMS:**

Please amend the claims as follows:

subt  
B1 } 1. (Amended) A method of immunologically measuring the human medullasin content in blood comprising the following steps (a) and (b):

A2 (a) breaking up the leukocytes in a blood sample by contacting said blood sample with the following aqueous liquids (i) or (ii) or an aqueous liquid mixture of (i) and (ii)